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Submission to OCP Networking Group:
100G Optics CWDM4-OCP Specification

Goal

- Share specification for 100G optical interconnect optimized for data-center applications

- Relaxed specifications to improve cost efficiency

- Take advantage of single-mode fiber to future proof fiber infrastructure for multiple generations.

Contacts

- Katharine Schmidtke, Facebook

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100G Optics CWDM4-OCP Specification

CWDM4-OCP:

- relaxed specification for DCs
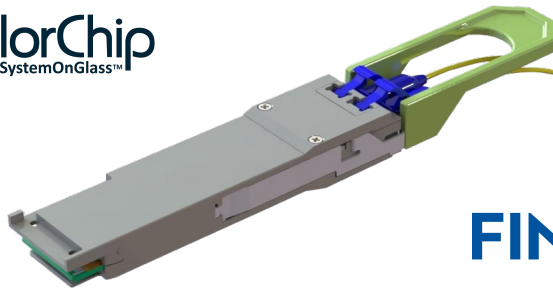- reduced temperature range
- reduced link budget

	CWDM4-OCP Relaxed Specification	CWDM4 MSA Base Specification
Reach	500 m	2000 m
Tx OMA	-5 dBm	-4 dBm
Tx OMA-TDP	-6 dBm	-5 dBm
Rx Sensitivity	-9.5 dBm	-10 dBm
Link loss	3.5 dB	5 dB
Operating Case Temperature	15-55 deg C	0-70 deg C

100G Optics CWDM4-OCP Ecosystem

- Commercially available CWDM4-OCP optical transceivers include:

Optical Transceiver Manufacturers	CWDM4-OCP Model Number
Colorchip	C100 Q005 CWDM4 02B
Finisar	FTLC1152RGPL6

- Ecosystem of switch equipment

Compatible Switches	Model Number
Edgecore Networks	Wedge100-32X
Celestica	D8020 (Backpack 100G)

ColorChip
SystemOnGlass™

FINISAR